

## AMENDMENTS TO THE SPECIFICATION

**Please amend paragraphs [0057] and [0058] by inserting a paragraph between paragraph [0057] and [0058] and amending as follows:**

-- [0057] FIG. 20 illustrates a schematic diagram of an adaptive integration network with mutually interacting loops that share a connection, in accordance with one embodiment of the present invention;

FIG. 21 illustrates a portion of an adaptive integration network with two loops in accordance with an embodiment;

[0058] FIG. 22 illustrates a graph illustrating exemplary connection weight strengthening and connection weight weakening curves in accordance with one embodiment of the present invention;-